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### Search History

**DATE:** Tuesday, September 09, 2003    [Printable Copy](#)    [Create Case](#)

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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

<u>L9</u>	14 and l7	10	<u>L9</u>
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<u>L6</u>	705/35	1627	<u>L6</u>
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<u>L4</u>	L3 and children	12	<u>L4</u>
<u>L3</u>	automate\$ near4 bank near4 account	73	<u>L3</u>
<u>L2</u>	L1 and automate\$ near4 bank near4 account	0	<u>L2</u>
<u>L1</u>	"walter, joanne".in.	29	<u>L1</u>

END OF SEARCH HISTORY

First Hit   Fwd Refs**End of Result Set**

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L4: Entry 12 of 12

File: USPT

Sep 14, 1999

DOCUMENT-IDENTIFIER: US 5953710 A

TITLE: Children's credit or debit card systemAbstract Text (1):

Methods and credit or debit card systems are disclosed that allow the available credit to be determined by someone other than the card issuer and that allow a limit to be set on the number of expenditures that can be made. The methods and systems can be used to provide a mechanism for supervising credit or debit card usage. Methods and systems are disclosed which include a child's credit card account linked to a parent's credit or debit card account. The parent may change the child's available credit without changing the total combined available credit for the child's and the parent's accounts. In addition, an expenditure counter figure associated with the child's account is disclosed which can be used by the parent to enable the child to make an unlimited number of purchases, a limited number of purchases, or no purchases. The parent may make a single payment for both the child's and the parent's credit card accounts. The methods and systems disclosed may be used outside of the parent/child context whenever supervision is required. They may also be used by a single individual to provide limited credit card usage in less secure environments.

Brief Summary Text (6):

Typical debit cards function essentially as electronic checks drawn against the account holder's bank checking account. For a debit card, the "available credit" is equal to the available balance in the account holder's bank account. Increases in the available credit require an actual deposit of funds, into the associated bank account, which must be approved by the bank. For example, checks deposited to an account are often subject to a hold policy of several days until the deposited funds are authorized as "available" by the bank. The account used by a debit card may support other capabilities of a regular bank account, including Automated Teller Machine access.

Brief Summary Text (7):

A recent American Bankers Association report indicates that 3.53 percent of bank credit card accounts are 30 days or more overdue. Another report by the RAM Research Group shows credit card delinquency rates on a dollar basis to be 4.33 percent. There is a need for a system by which children can learn to use credit and debit cards wisely. In addition, there are situations in which a system is needed to provide a method of supervising card usage. For example, supervised credit or debit cards may protect a mentally infirm elderly person from fraud by allowing supervision of large expenditures. In addition, employers may wish to supervise their employees' use of credit cards for business expenses.

Brief Summary Text (8):

The use of credit and debit cards by children currently is limited due to drawbacks with existing systems including:

Brief Summary Text (9):

Inability of Parents to Control Expenditure Amounts: Parents often prefer to

supervise a child's expenditures on a case by case basis, since expenditures may vary widely from the cost of lunch to the cost of a new bicycle. A single credit or debit limit large enough for any expenditure does not allow a parent to supervise the child's smaller purchases. Furthermore, current credit and debit card systems provide for a limit which cannot be changed without bank approval. Therefore, parental control of a child's credit or debit card expenditures is limited with current systems.

Brief Summary Text (10):

Inability of Parents to Control Number of Expenditures: Often a parent desires to provide a child with a method of making a limited number of expenditures. Current credit card systems provide no mechanism for parents to limit the number of expenditures made by a child.

Brief Summary Text (11):

Payment Drawback: Typically a parent may simply wish to pay for a child's expenditure without automatically allowing more expenditures. However, in current credit card systems, paying a credit card's balance due results in a corresponding increase in the credit card's available credit.

Brief Summary Text (15):

One type of preferred embodiment of a method and system according to the present invention includes a separate credit card account for a child which is linked with a parent's credit card account. The method and system allow: a parent to make changes in the child's available credit without changing the total combined credit limit and available credit for the child's and parent's credit card accounts and without requiring bank approval; the child's purchases to be included in the parent's statement; the parent to enable the child to make purchases unlimited in number, a limited number of purchases, or no purchases; and the parent to make a single payment for both the child's and the parent's credit card accounts. In a preferred embodiment of the invention, both the child's and parent's accounts are credit card accounts. While the invention is described in the context of a parent and child, this invention can be used whenever supervision would be helpful, such as when an adult son or daughter supervises a mentally infirm elderly parent. The invention may also be used by a single individual to provide a supervised card for use in less secure environments.

Brief Summary Text (17):

In another preferred embodiment of the invention, the child's account is a debit card account and the parent's account is a credit or debit card account.

Brief Summary Text (18):

In another preferred embodiment of the invention, there is more than one child's account.

Brief Summary Text (22):

The present invention allows a parent to provide supervised credit to a child.

Brief Summary Text (23):

The present invention allows a parent to receive a statement, including a child's expenses.

Brief Summary Text (24):

The present invention allows a parent to use the system to restrict the number of purchases made by the child.

Brief Summary Text (25):

The present invention allows a parent to make a single payment for their account and their children.

Brief Summary Text (27):

By providing for processing which maintains a constant total family credit limit, the present invention permits a parent to increase the child's available credit without the bank approvals normally required for an increase.

Brief Summary Text (28):

In the present invention, a parent's payment pays for a child's expenditures, but does not change a child's available credit. The child's available credit is only increased by a parent request.

Drawing Description Text (5):

FIG. 3 shows a flow chart of the approval processing of a purchase made with either the parent's credit card or the child's credit card in an embodiment of the invention.

Drawing Description Text (8):

FIG. 6 shows a flow chart of the processing of a parent request for an increase in the child's available credit in an embodiment of the invention.

Drawing Description Text (10):

FIG. 8 shows a flow chart of the processing of a parent request for a decrease in a child's available credit in an embodiment of the invention.

Detailed Description Text (5):

A physical credit card for a child 4 with an associated child's account number;

Detailed Description Text (15):

The parent's physical credit card 2 is used by the parent to make purchases by presenting the card to a merchant. Similarly, the child's credit card 4 is used to make purchases by presenting the card to a merchant. The Merchant Credit Card Transaction Processing System 6 is used by the merchant to request approval for a customer's credit card expenditure. The Bank Approval Processing System 8 is used to approve credit card expenditure requests submitted by the Merchant Credit Card Transaction Processing System 6. To supervise a child's card, the parent uses a touch tone telephone or other customer access device 14 to enter requests which are processed by the Bank Customer Account Information System 10. A parent sends a payment 16 via the payment delivery service 18 which is processed by the Bank Payment Processing System 20.

Detailed Description Text (16):

The physical credit cards 2 and 4 for the parent and child are standard credit cards issued today. The embodiment also uses existing Merchant Credit Card Transaction Processing Systems 6. Existing telecommunications links 12(a) interconnect the Merchant Credit Card Transaction Processing System 6 to the Bank Approval Processing System 8. All bank systems use conventional computer and telecommunications equipment.

Detailed Description Text (19):

The parent and child each have separate credit cards 2 and 4 with distinct credit card numbers that represent credit card accounts. As in current systems each credit card account is assigned to an account holder. The names on the credit cards 2 and 4 normally are different and the mailing addresses may be different as well. Preferably, the child's credit card 4 expires at the same time as or before the parent's credit card 2, avoiding the possibility of an expired parent's card 2 linked to a valid child's card 4. Similarly, if a parent's credit card 2 is revoked due to a decision by the bank to discontinue credit, the child's credit card 4 should be revoked as well. The information on the cards' magnetic strip is the same as credit cards currently in use, and contains just one account number. Normally a credit card account is specified by an account number. However, it is possible to uniquely identify a credit card account using multiple attributes which may be

provided on the credit card's magnetic strip. For example, both account number and name may be used to specify an individual credit card account. This invention includes the case where an individual account may be distinguished by both account number and person's name, or any other set of uniquely identifying attributes, such as a Social Security number.

Detailed Description Text (20):

In this invention, the loss or theft of a child's credit card 4 will not affect the parent's credit card 2. The child's account number is immediately canceled, without canceling the parent's account. The bank may then issue the child a new account number and credit card 4. If the parent's credit card 2 is lost or stolen, it is possible to provide processing which allows the child's card to remain functional. However, a preferred approach is to immediately create a new parent's account number and change the child's card to be associated with the new account.

Detailed Description Text (23):

Two new database records are defined: a parent account record 24 and a child account record 26. The new records include the account number 30, account holder name 28, account holder mailing address 32, credit limit 34, account holder personal identification number (PIN) 36, account available credit 38, account balance 40, and any additional fields for information concerning the account that the bank wishes to keep. The account number 30, account holder name 28, and account holder mailing address 32 fields hold the account's identifying number and the name and address of the account holder. The Credit Limit Field 34 in the parent account record 24 holds the credit limit figure set by the bank for the parent's credit card account. In a preferred embodiment of the invention, a credit limit is not maintained with the child's account record 26. The PIN Code Field 36 in the parent's account record 24 is used to verify the PIN input by the parent during parent request processing. PIN codes can be encrypted in the database. A child's account optionally may have a PIN Code Field. The Available Credit Field 38 holds a figure representing the amount of credit currently available for use by the account holder. The child's available credit is maintained separately from the parent's available credit. The child's available credit is initially set to zero, but may be changed to a value specified by the parent at the time the child's account is created. In the parent account record, the Account Balance Field 40 holds the amount currently due for payment. An account balance 40 is also maintained within the child's account record.

Detailed Description Text (24):

In addition, the parent account record 24 includes the child's Account Number Field 42 to hold the associated child's credit account number. If there are additional child accounts, the additional account numbers also are included in the parent account record. Similarly the child account record includes a parent's Account Number Field 44 to hold the associated parent's credit account number. The child's account record also includes an Expenditure Counter Field 46 and a Saved Available Credit Field 48. The Expenditure Counter Field 46 contains an integer value indicating one of three modes:

Detailed Description Text (25):

less than 0 - - - the child's card is enabled with no limit on the number of approved expenditures;

Detailed Description Text (26):

equal to 0 - - - the child's card is disabled, and expenditures will not be approved until enabled by the parent; or

Detailed Description Text (27):

greater than 0 - - - the child's card is enabled, but will approve only the number of expenditures equal to the counter value.

Detailed Description Text (28):

When the Expenditure Counter is equal to zero, the child's available credit is stored in the Saved Available Credit Field 48, and the Available Credit Field 38 is set to zero.

Detailed Description Text (30):

When a child makes an expenditure, a new debit transaction record 52 is created in the child's credit account. In a preferred embodiment of the invention, the data model does not require a separate debit transaction record for the expenditure to be included on the parent's credit account record. Database query processing can retrieve a list including both parent and child debit transaction records, avoiding the need to duplicate the child's debit transaction record. The database query uses the parent's account number to retrieve the child's account number from the parent's account record. Query processing can retrieve all transaction records corresponding to either the parent account number or the child account number. Another approach is to obtain the child account numbers by querying for all child account records linked to a given parent account.

Detailed Description Text (31):

FIG. 2a depicts a parent statement list 56 which is used to generate a monthly statement for the parent's credit card. The parent statement list 56 will include both parent and child transactions. This approach may be used for any number of children. In a preferred embodiment of the invention, the query processing described above is used to create a Parent Statement List 56. The child statement list 54 is defined to include only transactions made by the individual child. Similar to the parent statement list 56, a parent balance list includes both parent and child transactions used to compute the parent's account balance due. As in current systems, the parent's account balance due is used to compute interest charges and for customer inquiries.

Detailed Description Text (33):

When a parent or child desires to make a purchase with his or her credit card, the request is submitted by the merchant and processed by the Bank Approval Processing System 8 to determine whether the purchase is approved. Although referred to as a Bank Approval Processing System, the system may be operated by an entity other than a Bank. The Bank Approval Processing System 8 is shown in FIG. 3.

Detailed Description Text (45):

In approval processing with expenditure limits, if an expenditure is rejected due to lack of available credit, the processing is the same as in FIG. 3. As will be shown in FIG. 6, if a child's Expenditure Counter is equal to 0, the expenditure will always be rejected because the child's available credit will be 0.

Detailed Description Text (46):

If at decision step 68 the available credit is greater than or equal to the expenditure amount, additional processing 76 first checks if the approval request is for a parent's account or a child's account. For a parent's account, branch 78 is followed and there is no further additional processing for expenditure limits and processing proceeds as in FIG. 3. For a child's account, branch 80 is followed and at step 82 the value of the Expenditure Counter is obtained from the field in the child account record, as shown in FIG. 2. If the child's Expenditure Counter is less than 0, then the child's card is enabled with no limit to the number of approved expenditures. Then there is no further additional expenditure limit processing and processing proceeds as in FIG. 3. If the child's Expenditure Counter is greater than 0, at step 84 the Expenditure Counter is decremented by one in the Bank Account's Database 22. At step 86, the value of the Expenditure Counter is obtained. If the Expenditure Counter is now equal to zero, at step 88 the value in the Available Credit Field is stored in the Saved Available Credit Field of the child account record, and the Available Credit Field of the child account record is set to 0. With zero available credit, any subsequent expenditures will not be

approved. After step 88 processing proceeds as in FIG. 3.

Detailed Description Text (48):

Credit Processing is shown in FIG. 5. The system is similar to the approval processing shown in FIG. 3. When a merchant desires to give a credit to a parent or child, the request is submitted by the merchant and processed by the Bank Approval Processing System 8. The cash register 58 provides the merchant interface unit 60 with the credit amount. The customer's credit card 2 or 4 provides the credit card account number to the merchant interface unit 60. The telecommunications link 64 establishes a data connection between the merchant interface unit 60 and the bank telecommunications interface 62.

Detailed Description Text (56):

Parent requests facilitate the supervision of the child's credit card and include increases in a child's available credit, decreases in a child's available credit, enabling and disabling a child's credit card, and controlling the number of expenditures allowed to be made with the child's card.

Detailed Description Text (57):

The processing for a parent request to increase a child's available credit is shown in FIG. 6. The operations are described for a teleprocessing based Bank Customer Account Information System 10. Teleprocessing based systems are common in the banking industry today, allowing a customer to retrieve account information and make requests using a touch tone telephone. Other systems that allow the customer to input and receive information, automated teller machines and personal computer systems, also may be used in this invention. The basic operations are independent of the form of customer access.

Detailed Description Text (58):

The parent uses a touch-tone telephone 14 to dial the telephone number for the Bank's Customer Account Information System 10, logs on by entering the parent account number and PIN, enters the request to increase the child's available credit by choosing a number from a menu, and enters the amount of the increase. The Bank Customer Account Information System 10 uses the telecommunications link 12(b) to answer the parent's incoming call, guides the parent through the log on process for that particular bank's Bank Customer Account Information System 10. Then a menu of request choices is played to the customer by the Bank Telecom Interface 62. For example, "To increase a child's available credit, press 1, to decrease a child's available credit, press 2," etc. Processing of a parent request to increase a child's available credit proceeds as follows:

Detailed Description Text (59):

1. As a part of the log on and request 100, the parent provides his or her account number, which is used to retrieve the parent's account record from the Bank Accounts Database 22. The parent account record 24 includes the child's account number, as shown in FIG. 2. Using the child's account number, the child's account record 26 may be retrieved from the Bank Accounts Database 22. If a parent has more than one child with a card, the parent also will be prompted by the Bank Telecom Interface 62 to select the child to which the request applies. The Bank Customer Account Information System 10 prompts the parent to enter the amount of the increase requested in the child's available credit. The Bank Telecom Interface 62 receives the amount entered.

Detailed Description Text (62):

4a. If the parent's available credit is less than the requested increase in the child's available credit, at step 106 the request is not approved and a rejection message is sent to the customer who hears it over the telephone.

Detailed Description Text (63):

4b. If the parent's available credit is greater than or equal to the requested

increase in the child's available credit, at step 108 the request is approved and an approval message is sent to the customer who hears it over the telephone.

Detailed Description Text (64):

Also at step 108, the Bank Accounts Database 22 is then updated to record the transaction and to update the available credit amounts. The child's available credit is increased by the requested amount and the parent's available credit is decreased by the same amount.

Detailed Description Text (65):

As shown in FIG. 7, the completed parent request is recorded by creating a new parent request transaction record 110 in the Bank Accounts Database 22. The parent request transaction record includes the parent account number, the child account number, the amount of the increase in the child's available credit, and the date and time of the transaction.

Detailed Description Text (66):

This invention may incorporate additional processing to optionally allow security limits on increases in a child's available credit. A security limit value may be stored in the child account record's Credit Limit Field 34. The processing of a requested increase to the child's available credit would include a step to compare the child increase to the security limit value before or after decision step 104.

Detailed Description Text (67):

If a parent requests a change in the child's available credit when the child's card is disabled, the parent's request is rejected.

Detailed Description Text (69):

A parent may also request a decrease in the child's available credit. The processing for a parent request to decrease a child's available credit is shown in FIG. 8. This processing uses the same log on and request step as step 1 for the parent increase request, but the parent requests a decrease rather than an increase in the child's available credit. Processing of a parent request to decrease a child's available credit proceeds as follows:

Detailed Description Text (70):

2. The Bank Customer Account Information System 10 performs a database query operation 112 to retrieve the available credit for the child's account from the Bank Accounts Database 22.

Detailed Description Text (71):

3. At decision step 114 the available credit for the child's account is compared with the requested decrease.

Detailed Description Text (72):

4a. If the child's available credit is less than the requested decrease in the child's available credit, at step 116 the request is not approved and a rejection message is sent to the parent who hears it over the telephone.

Detailed Description Text (73):

4b. If the child's available credit is greater than or equal to the requested decrease in the child's available credit, at step 118 the request is approved and an approval message is sent to the parent who hears it over the telephone. Also at step 118 the Bank Accounts Database is then updated to record the transaction and to update the available credit amounts. The child's available credit is decreased by the requested amount and the parent's available credit is increased by the same amount.

Detailed Description Text (75):

The processing for a Parent Disable Request is shown in FIG. 9. The parent follows



the procedure described in step 100 above for a Parent Increase Request to gain access to the Bank Customer Account Information System 10. When prompted by the Bank Telecom Interface 62 to select a request, the parent makes a request to disable the child's credit card. A database query 120 is performed to retrieve the child's account record Expenditure Counter Field 46. At decision step 122, if the Expenditure Counter is already equal to zero, the child's account is already disabled. At step 124, a rejection message is sent to the parent over the telecommunications link 12(b) indicating that the child's card is already disabled. If the Expenditure Counter is not equal to zero, at step 126 the parent's request is approved. Also at step 126 the child's Expenditure Counter is then set to zero, the child's available credit value is stored in the Saved Available Credit Field 48 of the child account record 26, the Available Credit Field 38 in the child's account record 26 is then set to zero, and the Bank Accounts Database 22 is updated to record the transaction and to update the new values in the child's account record 26.

Detailed Description Text (77):

The processing for a Parent Enable Request is shown in FIG. 10. The parent follows the procedure described in step 100 above for a Parent Increase Request to gain access to the Bank Customer Account Information System 10. When prompted by the Bank Telecom Interface 62 to select a request, the parent makes a request to enable the child's credit card. A database query 120 is performed to retrieve the child account record Expenditure Counter Field 46. If the Expenditure Counter is not greater than (at decision step 128) or equal to (at decision step 130) zero, the child's account is already enabled. At step 132 the parent's request is rejected with an indication that the account is already enabled. If at decision step 130 the Expenditure Counter is equal to zero, the value from the Saved Available Credit Field of the child account record is copied to the Available Credit Field at step 136. If the Expenditure Counter is greater than or equal to zero, at step 134 the parent's request is approved. Also at step 134 the child's Expenditure Counter is set to minus one and the Bank Accounts Database 22 is updated to record the transaction and to update the new values in the child's account record.

Detailed Description Text (79):

The processing for a Parent Limit Request is shown in FIG. 11. The parent follows the procedure described in step 100 above for a Parent Increase Request to gain access to the Bank Customer Account Information System 10. When prompted by the Bank Telecom Interface 62 to select a request, the parent makes a request to limit the number of expenditures which may be made with the child's card. A database query 120 is performed to retrieve the child account record Expenditure Counter Field 46. At decision step 138 if the Expenditure Counter is equal to zero this indicates the child's account is disabled. In a preferred embodiment of the invention, the child account is re-enabled by the parent limit request, so at step 140 the child's available credit is restored using the value in the Saved Available Credit Field 48. For any current value of the Expenditure Counter (Expenditure Counter=0 or Expenditure Counter.noteq.0) at step 142 the Expenditure Counter is set to a number entered by the parent. The parent limit request transaction is recorded in the database together with the updated child account record and the customer receives an indication that their request has been approved.

Detailed Description Text (81):

Payments are processed in a preferred embodiment of the present invention as in current credit card systems. However, in a preferred embodiment of the invention, the statement printed by the bank and sent to the parent includes both parent and child transactions as in FIG. 2a.

Detailed Description Text (82):

In a preferred embodiment of the present invention, a parent's payment increases the parent's available credit but does not change a child's available credit. The child's available credit is increased only by a parent request or a child payment,

see below.

Detailed Description Text (83):

If a parent does not make a complete payment, interest charges will accrue on the unpaid portion as in current systems. This invention incorporates processing such that interest charges do not accrue against the child's account. Note the child's charges are a part of the parent's balance due and will result in interest charges to the parent's account, if appropriate.

Detailed Description Text (84):

Practice Payments, statements and interest processing provides for a child's statement detailing the child's expenditures. When a child makes a payment to the child's account, this will increase the child's available credit. The invention provides processing such that a child payment will also be credited to the parent's account balance without increasing the parent's available credit. This is done by providing a Parent Account Balance List that includes both parent payments and child payments. This invention provides for optional processing which provides for practice interest charges on a child's practice statement. Practice interest is intended for educational purposes only, not payment.

Detailed Description Text (87):

When a parent's card is a debit card and the child's card is a credit card, this invention uses the same methods previously described to provide supervised credit to the child. The invention uses the parent debit card's available credit in the same way as previously described for the parent credit card's available credit. As in FIG. 6 when a parent requests an increase in a child's available credit, the parent's "available credit" is checked to see that a sufficient amount is present for the increase request. If yes, the child's available credit is increased by the requested amount, the parent's "available credit" is reduced by the same amount, and a transaction record is created in the Bank Accounts Database. However, the parent's Account Balance is not changed by an increase or decrease request in a child's available credit. Since interest earnings and bank service charges are based on the Account Balance, rather than the "available credit," a parent will earn interest for the entire balance even though the child has received available credit.

Detailed Description Text (89):

When the parent's card is a debit card, parent requests to enable, disable, or set limits on the child card operate the same as described for a parent credit card.

Detailed Description Text (90):

Child Debit Card

Detailed Description Text (91):

When the child's card is a debit card, the child account record used in a preferred embodiment of the invention is shown in FIG. 2 without the Credit Limit Field 34. The Available Credit Field 38 is in effect an Available Balance Field. When there are no parent disable or limit requests, the child account operates as a normal debit card account. Debit card approval processing uses the same operations as shown in FIGS. 3 and 4. Parent requests to enable, disable, or set limits on the child debit card operate the same as described for a child credit card. A parent's statement includes a child's debit card transactions through the same operations as for a child's credit card.

Detailed Description Text (93):

The processing of transaction records is summarized. These lists may be implemented by using database query operations to select a given list of transactions for specified accounts from the Bank Accounts Database. The child account may be determined from the parent's account number as described above.

Detailed Description Text (95):

Parent Statement List--includes parent and child debit expenditures, parent and child credits, parent and child payments, parent requests including increase, decrease, enable, disable, and limit requests, as well as any service charges, interest, or fees for the parent and child. Note the parent statement includes child purchases. Transactions on this list are shown on a parent's account statement.

Detailed Description Text (96):

Parent Account Balance List--includes parent and child debit expenditures, parent and child credits, parent and child payments and any service charges, interest charges, or fees for the parent and child. Transactions on this list are used to compute the parent account balance. The parent account balance is also used to compute interest charges for a credit card. Note a child payment increases the parent's account balance while a child debit decreases the parent's account balance.

Detailed Description Text (97):

Parent Available Credit List--includes parent debits, credits, and payments, parent increase/decrease requests and any service charges or fees for the parent and child. While the parent's available credit is maintained in the parent account record, it may be recomputed or verified using these transactions. Note a child payment does not affect the parent's available credit.

Detailed Description Text (98):

For a Child Credit Card:

Detailed Description Text (99):

Child Statement List--includes child debit expenditures, child credits, child payments, parent requests including increase, decrease, enable, disable, and limit requests. "Practice Interest" charges may also be shown.

Detailed Description Text (100):

Child Account Balance List--includes child debit expenditures, child credits, child payments. In a preferred implementation, any service charges, interest charges, or fees for the child are not included. A child's account balance list may be used to compute a child's account balance due. This balance due may be used by the child to determine the amount of a practice payment. An unpaid balance due may be used to compute practice interest for the child. For simplicity, an embodiment of the invention does not include practice interest in the child's balance due. For a child not using practice payments, the account balance due is largely for informational purposes, since the parent will make the payment. In this case, the account balance due may be shown on the child's statement just for the single statement period, rather than carrying a cumulative balance due forward.

Detailed Description Text (101):

Child Available Credit List--includes child debits, credits, and payments, and parent increase/decrease requests. While the child's available credit is maintained in the child account record, it may be recomputed or verified using these transactions. Note a parent payment does not affect the child's available credit.

Detailed Description Text (103):

For a Parent Debit Card and Child Credit Card:

Detailed Description Text (106):

Parent Available Balance List--includes parent debits, credits, deposits and withdrawals, parent increase or decrease requests and any service charges or fees for the parent. Note a child payment does not affect the parent available balance.

Detailed Description Text (108):

Allowances are a common way parents help children learn about money and personal finances. Allowances may be provided by a parent regularly requesting an increase in a child's available credit in the amount of the child's allowance. These requests may be automated at the request of the parent. The Bank Customer Account Information System 10 menu may be extended to offer support for automating allowances. This would be done by extending the parent request menu to include an additional choice for allowances. When the parent selected allowances, they would be prompted by the Bank Telecom Interface 62 to enter the allowance amount and the periodic interval of the allowance, such as weekly. A parent would also be provided options to change or terminate an allowance previously entered.

Detailed Description Text (111):

The invention generally does require a credit limit for the child's card, so a child's card without a customer known credit limit operates as described for a child's credit card.

Detailed Description Text (119):

It is possible to implement a self supervised card which allows the account holder to supervise their own credit or debit card, with all the capabilities of this invention. For example, an account holder could disable their own credit card and later re-enable it. The operations of enabling, disabling, and setting limits to a card are directly supported in the case of self supervision as described previously. Parent increase and decrease requests are also supported by extending the child's account record in the data model to add a Parent Available Credit Field. The Parent Available Credit Field would then be referenced instead of the parent account record Available Credit Field 38 in the parent increase or decrease request processing.

Detailed Description Text (121):

It is possible to extend the approval processing shown in FIG. 4 to provide notification to the parent when an attempt is made to use a disabled credit card. This notification may be useful when a single individual supervises a second "child" credit card for their own use in less secure environments, such as public networks.

Detailed Description Text (122):

Support For More Than One Child

Detailed Description Text (123):

In another preferred embodiment of the present invention, more than one child has a credit card account or a debit card account linked with the parent's account. Processing is achieved by repeating the invention's processing for each child's card. If a parent's credit card account is linked with more than one child's credit card account, all child accounts will be listed in the parent's credit card account record 24. During a parent request, the parent is prompted by the Bank Customer Account Information System 10 to select a child account. The Parent Statement List 56 will include expenditure and other transaction information for each child whose account is linked to the parent's account. As described above, the linked child accounts may be retrieved using a query with the parent account's number, rather than by including all the child account numbers in the parent account record 24.

Detailed Description Text (125):

In another preferred embodiment of the present invention, one or more child credit or debit card accounts are linked with multiple parent accounts. In this case, it is convenient to have one parent account designated as a "primary" account whose account number is used in the child account record Parent Account Number field 44. The primary parent account will receive copies of the child's transactions on their statement and pay for the child's expenditures, while all parent account(s) will be able to make parent requests including: increase the child's Available Credit, enable/disable the child's card, and set expenditure limits for the child's card.

It is also possible to include child transactions on statements for all parent accounts linked to the child.

Detailed Description Text (127):

An alternate embodiment of this invention may be implemented by defining a family available credit which is separate from the parent account's available credit. The family available credit is stored in the Bank Accounts database separately from the parent's available credit. This alternate embodiment uses the family available credit in place of the parent's available credit for operations granting available credit to the child's account and operates, with this substitution, in the same way as previously described. Thus the parent request for approval processing shown in FIG. 6 may be generalized to retrieve the associated available credit figure, parent available credit or family available credit, and then compare the amount of the requested increase with the available credit figure.

Detailed Description Text (128):

The children's card system provides all the buyer benefits of a traditional credit card. With a simple telephone call, a parent can easily provide for large expenditures by a child. Another important benefit is the ability of a parent to provide purchasing power to the child anytime and anywhere, without requiring bank approval. For example, a parent at work can easily arrange for the child to buy lunch with the supervised credit card.

Detailed Description Text (129):

The children's credit card system is used for purchases in exactly the same way as other credit cards. In addition, the credit card may be used as an education tool. Under a parent's supervision, the child can learn to use a credit card wisely. The children's card facilitates learning through "practice credit card statements" and even "practice payments" and "practice interest". Unfortunately today, when young adults receive their first credit card they often have little experience or guidance with using a credit card wisely. The children's card also provides for allowances, a common way parents help children learn about money and personal finances.

Detailed Description Text (130):

The children's credit card system is compatible with existing credit card systems. The physical credit cards, credit card magnetic strips, merchant credit card equipment, and credit card approval telecommunication systems do not require changes in order to implement this invention. This is particularly important due to the large quantity of merchant equipment in place throughout the world today. An invention requiring changes to merchant equipment would be very difficult and slow to deploy. The invention is also compatible with debit cards and other forms of payment including electronic payments.

CLAIMS:

12. The method of claim 11, wherein the first account holder is a child and the second account holder is a parent.